DESEAVER

Decoy control and launching system

ELBIT SYSTEMS LTD.
P.O.Box 539
Advanced Technology Center
Haifa 31053, Israel
Tel: 972-4-8315315
Fax: 972-4-8550002
Web site: http://www.elbit.co.il

DESEAVER is a decoy control and launching system which responds to threats in the combat scenario taking all factors into account. DESEAVER can handle multiple threats from multiple directions simultaneously.

Acting on data received and processed from the ship's command and control system and/or sensors, the system launches a barrage of expendable decoys with precise priority and timing. Combining an array of fixed and fast maneuvering stabilized rocket launchers, backed by advanced processing and control units, DESEAVER delivers payloads at accurate time intervals and according to specified anti-missile doctrines and guidelines. The system is adaptable to a broad range of vessels, from patrol boats to frigates. It can be configured to integrate with any existing on-board equipment.

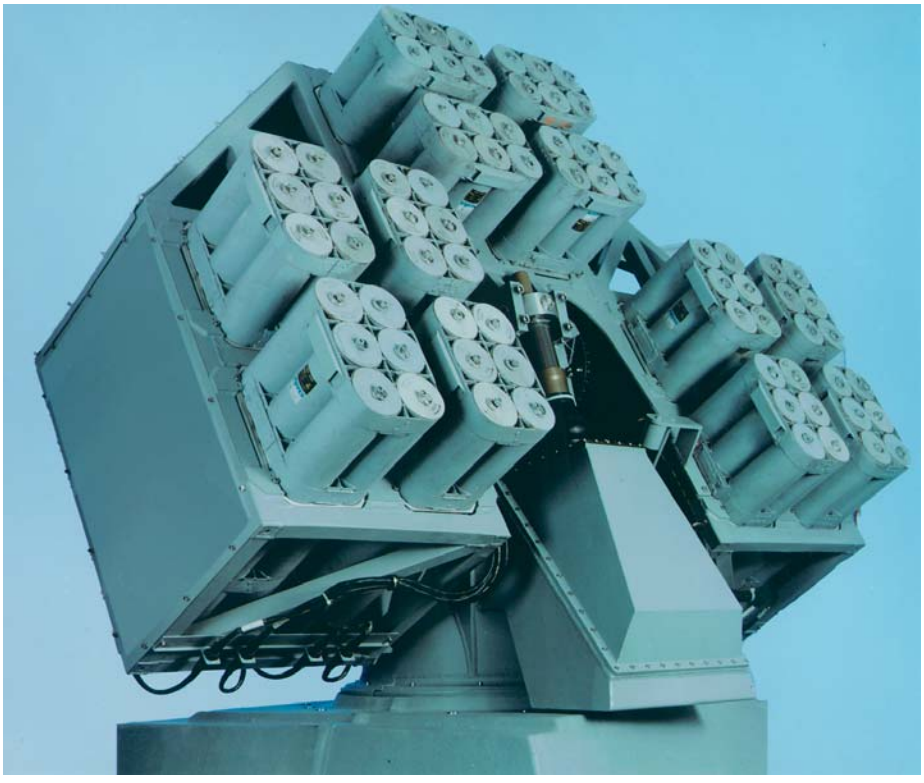
DESEAVER performs the following tasks:

- Evaluation of threat tactical picture and selection of appropriate passive countermeasures
- Operation in conjunction with the EW defense system and within the entire combat system of the ship
- Deployment procedure computation
- Recommendation of preferred ship's course and speed as part of the anti-missile defense procedure
- Launching of defense decoys
- Control of up to six types of EW rockets (chaff and IR)
- Resource allocation and launching rockets according to selected programs
- Deployment of tactical decoys
- Providing the commanding officer with a display of the threat and decoy environment

DESEAVER can be operated from a single console. It operates in three modes:

Automatic: evaluates tactical picture, selects threats to be engaged and generates countermeasure response programs

Semi-Automatic: functions automatically requiring operator approval by single key activation for initiating rocket launching

Manual: most functions performed automatically but operator approval is required at two stages: designation of targets and initiation of rocket launch

The launching capabilities of DESEAVER offer comprehensive coverage under complete control. The system controls three stabilized azimuthal launchers having 72 rockets. The stabilized rocket launching unit coverage is 340° in azimuth. The launcher is based on an advanced digital control system and powered by electrical DC motors. All system units are provided with backup capability in case of power failure. Coverage is according to the selected launch angle, from +15° to +55° relative to earth. Velocity in azimuth traverse is 180° in four seconds, and in elevation 45° in up to 1.5 seconds.